ABSTRACT

DNA derived from a gene encoding rice adenylate kinase which has a promoter function in a plant. A vector containing the DNA having a promoter function. A bacterium containing the vector, a plant cell transformed with the vector, and a plant regenerated from the plant cell and its seed.

The DNA having a promoter function can be ligated with a structural gene such as a reporter gene and integrated into a vector such as an expression vector. When the DNA having a promoter function is ligated to a vector together with a structural gene encoding a protein and transformed into a host cell, the structural gene is expressed. Further, the expression of a desired gene can be regulated by ligating the desired gene under the control of the DNA fragment.